

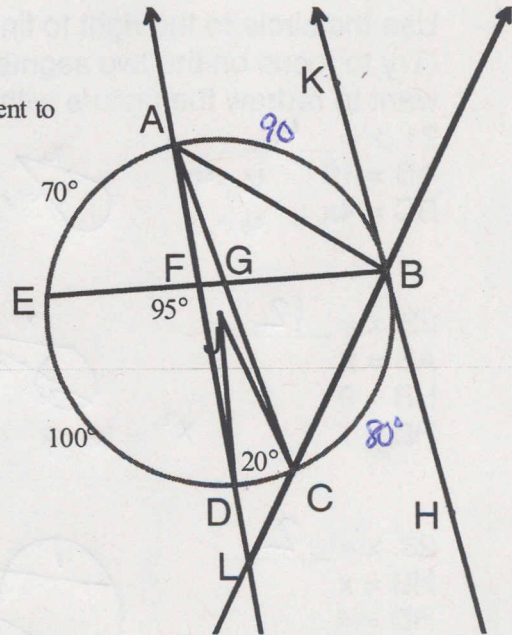
Name Key

Date _____

Ch 10 Review

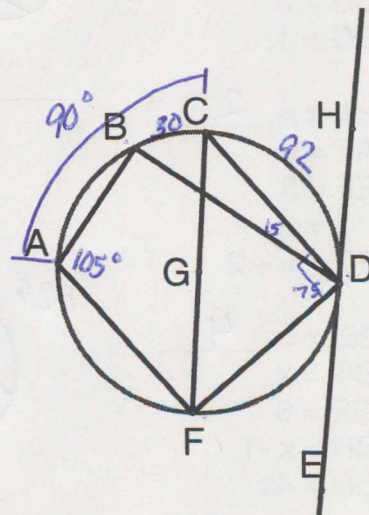
Use the circle to the right to find the following:

1. $m\widehat{AB} = 90^\circ$ $95 = \frac{1}{2}(100 + m\widehat{AB})$ \overleftrightarrow{BH} is tangent to $\odot J$
2. $m\widehat{CB} = 80^\circ$ $360 - 280 = 80$
3. $m\angle GBC = 60^\circ$ $\frac{1}{2}120$
4. $m\angle HBC = 40^\circ$ $\frac{1}{2}80$
5. $m\angle BAC = 40^\circ$ $\frac{1}{2}80$
6. $m\angle KBC = 140^\circ$ $\frac{1}{2}280$
7. $m\angle AGB = 105^\circ$ $\frac{1}{2}(90 + 120)$ $\frac{1}{2}(90 - 20)$
8. $m\angle ALB = 35^\circ$
9. $m\angle DAC = 10^\circ$ $\frac{1}{2}20$
10. $m\angle DJC = 20^\circ$ $= arc$



Use the circle to the right to find the following:

11. $m\angle BDF = 75^\circ$ $180 - 105$
12. $m\angle CDF = 90^\circ$ $\frac{1}{2}180$
13. $m\angle CDB = 15^\circ$ $90 - 75$
14. $m\angle CFD = 46^\circ$ $\frac{1}{2}92$
15. $m\angle BDH = 61^\circ$ $m\widehat{BC} = 30$ 15×2
16. $m\widehat{DF} = 88^\circ$ $\frac{1}{2}176$ $180 - 92$
- \overline{FC} is the diameter
- \overleftrightarrow{DE} is tangent
- $m\widehat{AC} = 90^\circ$
- $m\widehat{CD} = 92^\circ$
- $m\angle A = 105^\circ$



Use the circle to the right to find the following:

17. $m\angle CDB = 31^\circ$ 180 -31
18. $m\angle BDF = 149^\circ$
- $BC = EF$
- $m\widehat{CB} = 31^\circ$

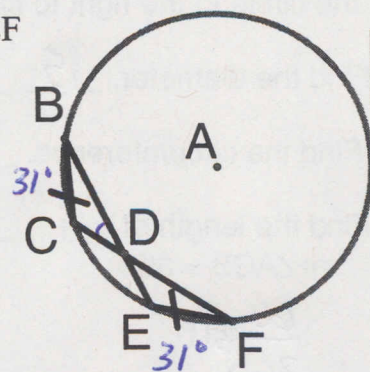
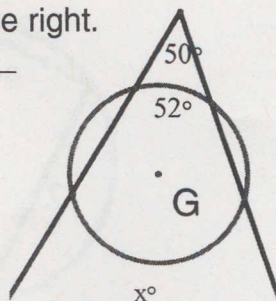
Use picture to the right.

19. $x = 152^\circ$

$$50 = \frac{1}{2}(x - 52)$$

$$100 = x - 52$$

$$152^\circ = x$$



For #s 17 & 18

$$r = 12$$

B Mrs. Hayden

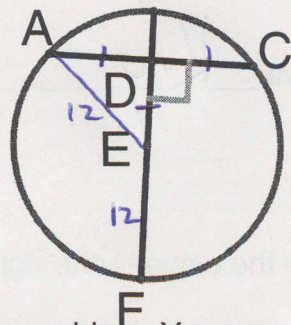
Use the circle to the right to find the following:

20. $AC = 12\sqrt{2}$

$AD = 6\sqrt{2}$

$$\begin{array}{r|rr} 45 & 45 & 90 \\ \hline 6\sqrt{2} & 6\sqrt{2} & 12 \end{array}$$

$AD = DE$



Use the circle to the right to find the following:

(Try to focus on the two segments that are involved in the problem. You may want to redraw the picture with just those segments.)

21. $x = 4$

$AB = 16$

$BC = 4x$

$16 = 4x$
 $4 = x$



\overline{AB} & \overline{BC}
are tangents

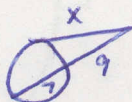
22. $x = 12$

$AB = x$

$HB = 9$

$HD = 7$

$x^2 = 16 \cdot 9$



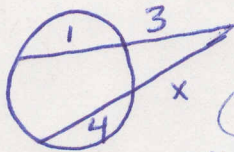
23. $x = 2$

$HB = x$

$HD = 4$

$BG = 3$

$EG = 1$



#23

$4 \cdot 3 = x(x+4)$

$12 = x^2 + 4x$

$0 = x^2 + 4x - 12$

$(x+6)(x-2)$

$x = -6$ $x = 2$

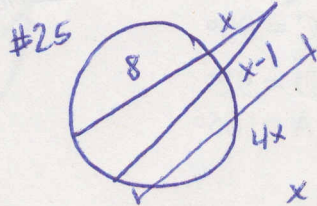
24. $x = 2$

$AF = 6$

$EF = 3$

$FG = 8$

$FD = x + 2$



#24

$x(x+8) = 4x(x-1)$

$x^2 + 8x = 4x^2 - 4x$

$0 = 3x^2 - 12x$

$0 = 3x(x-4)$

$0 = x$ $x = 4$

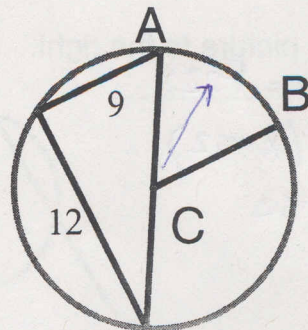
Use the circle to the right to find the following:

26. Find the diameter. 15

27. Find the circumference. 15π

28. Find the length of \widehat{AB} . $\frac{5\pi}{2}$
 $m\angle ACB = 60^\circ$

$\frac{60}{360} \cdot 15\pi$
 $\frac{1}{6} \cdot 15\pi = \frac{5\pi}{2}$



$d^2 = 9^2 + 12^2$
 225